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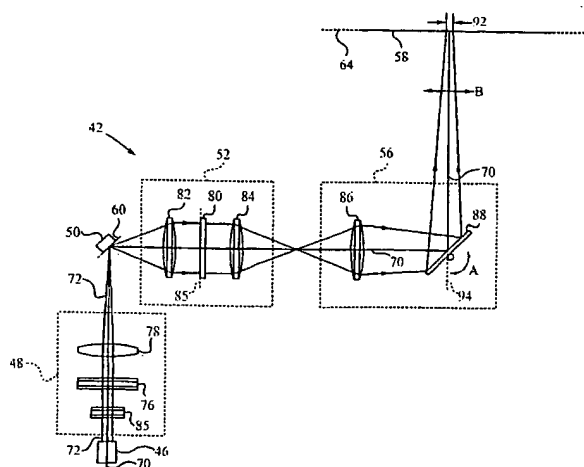
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- (71) Applicant: **SILICON LIGHT MACHINES [US/US];**
385 Moffett Park Drive, Suite 115, Sunnyvale, CA 94089 (US).
- (72) Inventor: **AMM, David, T.;** 178 Greenlees Drive,
Kingston, Ontario K7K 695 (CA).
- (74) Agents: **HAVERSTOCK, Thomas, B. et al.;** Haverstock
& Owens LLP, 162 North Wolfe Road, Sunnyvale, CA
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(54) Title: **ANGLED ILLUMINATION FOR A SINGLE ORDER GLV BASED PROJECTION SYSTEM**



(57) Abstract: A display apparatus projects a two dimensional image onto a display screen and includes illumination optics, a light modulator, separating optics and scanning optics. The light modulator is optically coupled to the illumination optics such that in operation the illumination optics illuminate the light modulator with an off-axis illumination and further such that the light modulator directs light onto an optic axis for a bright pixel, thereby forming on-axis light, and away from the optic axis for a dark pixel, thereby forming off-axis light. The separating optics are coupled to the light modulator and separate the off-axis and on-axis light where the on-axis light produces a real and virtual image that is displayed by the projection and scanning optics.

WO 02/084397 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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Y	13 May 1997 (1997-05-13) abstract	1-13, 15-23, 31-38
A	claims 1-4 figures 2-4	14, 24
Y	US 5 982 553 A (BLOOM DAVID M ET AL)	1-7, 15-21, 31-38
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European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
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Information on patent family members

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